



Patent Application

Right Classification	Patent.
Receiver	Commissioner of KIPO.
Reference Number	0008
Submission Date	2002.10.01
International Patent Classification	H04N
Korean Title of Invention	Internet digital video disc monitor
English Title of Invention	Internet digital video disc monitor
Applicant	
Name	SAMSUNG ELECTRONICS CO., LTD.
Applicant Code	1-1998-104271-3
Agent	
Name	Yeong-Pil Lee
Agent's Code	9-1998-000334-6
Registration Number of General Power of Attorney	1999-009556-9
Name	Hae-Young Lee
Agent's Code	9-1999-000227-4
Registration Number of General Power of Attorney	2000-002816-9
inventor	
Korean Name	Jung-Gyun Shin
English Name	SHIN, Jung Kyun
Individual id number	Secure Information
Postal code or zip code	Secure Information
Address	Secure Information
Nationality	KR
Request for Examination	Demand.
Purport	
We file an application under Article 42 of Patent Act, file a Request for Examination under Article 60 of the same Act. Agent Yeong-Pil Lee (Signature) Agent Hae-Young Lee (Signature)	
Official Fee	
Application Fee	11 page(s) 29,000 won.
Additional Application Fee	0 page(s) 0 won.
Priority Fee	0 case 0 won.
Examination Fee	3 claims 205,000 won.
Total	234,000 won.
Attached Documents	
1. 1 summary · specification(drawing).	

Patent Specification

Abstract

Abstract

The invention relates to the internet digital video disk monitor including the DVD player, and the memory stick and TV function in the internet application system which is more particularly the self operation system (Operating System) comprised of the built in and One-Chip *** controller to the internet application system. The internet digital video disk monitor provides the control means which is the internet terminal which can connect to internet even though it does not connect with PC, and which is not put through the decoding means decoding the DVD ROM, and the regenerative signal outputted in the DVD ROM, and the separate communications bus, and receiving the decoded regenerative signal as described above and processed as the signal for the display. According to the present invention, the DVD player, and the new function like the memory stick and TV function are added to the conventional internet application system and various functions are implemented in terms of one system. In that way the effect occupying the specific gravity which even on top of the internet application market rather than is bigger after flavor is created.

Representative Drawing

Drawing 3

Specification

Title of Invention

Internet digital video disc monitor{Internet digital video disc monitor}

Brief Description of the Drawings



Figure 1 is a block diagram showing configuration of the conventional internet monitor.

Figure 2 is a perspective view of the internet digital video disk monitor.

Figure 3 is a block diagram showing the configuration of the internet digital video disk monitor according to the invention.

The Detailed Description of Invention

The Purpose of Invention

Field of Invention and the Prior Art

- [2] The invention relates to the internet digital video disk monitor including the DVD player, and the memory stick and TV function in the internet application system which is more particularly the self operation system (Operating System) comprised of the built in and One-Chip *** controller to the internet application system.
- [3] While the internet environment is improved, the increment of the internet user is drastically accomplished. And it is possible for the accordingly various function offer. Even though PC is not used, it connects to internet and the usable internet terminal is commercialized. Even if the internet connection portion is equipped in the monitor itself and the middle internet monitor is not connected to the PC body, this kind of internet terminal can connect to internet.
- [4] Figure 1 is a block diagram showing configuration of the conventional internet monitor. The controller (100) controlling the operation of all blocks, the SDRAM (101), the PCI (Peripheral Component Interconnect) bus (102) for data of monitor and signaling, I / O controller (103) controlling the system input-output, and the IDE (Integrated Drive Electronics) controller (104) are included. The IDE (Integrated Drive Electronics) controller (104) is the interface for controlling the drive device.
- [5] If I / O controller (103) the system input is sensed, the signal which is generated interrupt and is inputted is delivered to the controller (100). As the interface for the peripherals including the IDE controller (104) is the hard disk drive etc, data between peripheral and the controller (100) and signal are delivered.
- [6] The output device (107) outputting the information displayed on the monitor screen including the internet connection portion (105), for connecting to internet without connection with PC in the monitor itself the signal input part (106), inputting the user signal like keyboard or mouse printer or scanner etc communicates through I / O controller (103) and PCI bus (102) with the controller (100).
- [7] The display unit (112) displaying the speaker (110), outputting the disk module (108) like the hard disk, the audio signal processing (109) processing the audio signal, and the processed audio signal the video signal processing unit (111) processing the video signal, and the processed video signal communicates through the IDE controller (104) and PCI bus (102) with the controller (100).

Technical Problems to be solved by the Invention

- [8] The technical subject in which the invention tries to be comprised relates to the internet digital video disk monitor for implementing the convergence product of the c function in the internet application system including the DVD player, and the memory stick and TV function.

The Structure and Function of the Invention(Device)

- [9] It is preferable that the internet digital video disk monitor for solving the technical subject for to being comprised includes the DVD ROM the invention is the internet terminal connecting to internet, the decoding means decoding the regenerative signal outputted in the DVD ROM, and the control means even though it does not connect with PC. The control means is not put through the separate communications bus, and which receives the decoded regenerative signal as described above and processed as the signal for the display.
- [10] In the present invention, monitor is characterized that the tuner for the TV broadcasting signal reception is more included. Accordingly it processes the control means as the signal for displaying the tuned broadcast signal.
- [11] In the present invention, monitor is characterized that the memory of being mobile that the predetermined data are stored is more included. Accordingly it processes the control means as the signal which is stored in the memory canning be outputted.
- [12] The attached invention is hereinafter particularly illustrated.
- [13] Figure 2 is a perspective view of the internet digital video disk monitor
- [14] Figure 3 is a block diagram showing the configuration of the internet digital video disk monitor according to the invention. It is comprised of the controller (300), the Disc On Module (301), the SDRAM (302), the signal input part (303), the output device (304), the internet connection portion (305), the TV tuner (306), the DVD ROM (307), the memory stick (308), the MPEG decoder (309), the video decoder (310), the LVDS (311), the display unit (312), the audio CODEC (313), the speaker (314).
- [15] Subsequently, referring to figs. 2 and 3, the invention is particularly illustrated.
- [16] The internet digital video disk monitor of the present invention is done by feature implementing the multi function peripheral of multifunction in the internet application product having upon preexistence only the web search function. Figure 2 is a perspective view of the DVD internet monitor. It is the multi function peripheral in which the DVD player, and the memory stick and TV function are more added besides the existing internet connection function.
- [17] The controller (300) controls the internet digital video disk monitor whole. The controller (300) has the graphics acceleration (Graphic Acceleration) function. The inputted graphic signal is processed the acceleration. The controller (300) has the memory control function. And the video signal having the video signal treatment function and is inputted is processed and it controls so that it be possible for the display. The controller (300) includes the PCI bus for data input/output, and IDE and I / O and it does not need the separate bus for data input/output. Besides that, hereinafter it illustrates for the other function of the controller (300).
- [18] As the Disc On Module (301) is the storage module like the hard disk (non illustration) or the compact disk (non illustration), the input/output of data which also is stored the controller (300) is possible.
- [19] The SDRAM (Synchronous DRAM) (302) is the memory that it directly receives the master clock user and the controller (300) is operated. Input/output as to data, stored in the SDRAM (302) is possible the controller (300).
- [20] In outside including the signal input part (303) is the mouse (non illustration) or the keyboard (non illustration) etc, it is the means inputting all kinds of the signals by user. And the output device (304) is the device for outputting the printer (non illustration) or the information displayed in monitor like the scanner (non illustration) etc.
- [21] The internet connection portion (305) LAN or modem, including, the wired internet means, or the wireless LAN, including, the wireless internet connecting method etc. can be equipped to the means for connecting to internet. In fig. 2, the internet connection portion (305) is equipped in the monitor bottom. But it can be changed with the location.
- [22] If the TV tuner (306) selects the broadcast signal desiring in the signal input part (303) as the means for tuning the broadcast signal, the TV tuner (306) tunes the selected broadcast signal.
- [23] The DVD ROM (307) is the means in which DVD including the different contents is mounted to the thing for the DVD player implementation.
- [24] The memory stick (308) is the recording media to a kind of the flash memory. The memory stick (308) is characterized that it is miniaturized by 21.5×50×2.8 mm (length × side × thickness) because of controller being mounted and not having like smartmedia and the miniaturization of instrument and degree of freedom of design are high. As this memory stick (308) the digital device including the digital camera, MP3, the DVD player etc. is widely distributed, data of high-capacity can be stored in the small size.
- [25] The DVD signal outputted in the DVD ROM (307) and the signal outputted in the memory stick (308) are input and it changes two signals to the YUV format and the MPEG decoder (309) outputs to the video decoder (310).
- [26] It receives the selected tuning signal which is outputted in the TV tuner (306) and the signal transformed to the YUV format outputted in the MPEG decoder (309) and it diversifies to the digital 8-bit (CCIR656) and the video decoder (310) transmits with the controller (300). It receives the signal of the YUV format and it scales and it mixes and the controller (300) outputs.
- [27] The LVDS (Low Voltage Differential Signaling) (311) converts the pixel sign of the parallel configuration outputted in the controller (300) into the high speed, and the



low power serial signal in order to display image to the flat panel display like LCD.

- [28] After receiving the serial signal outputted in the LVDS (311) and converting into the original parallel signal, it displays the display unit (312).
- [29] Change the speech signal outputted in the controller (300) to the signal canning be outputted and the audio CODEC (213) outputs to the speaker (314).
- [30] While the invention is not restricted to the above-described embodiment, it is of course that it is possible for the deformation by the person skilled in the art in the thought of the present invention.

Effect of Invention(Device)

- [31] As described above, the DVD player, and the new function like the memory stick and TV function are added to the conventional internet application system and various functions are implemented in terms of one system. In that way the effect occupying the specific gravity which even on top of the internet application market rather than is bigger after flavor is created.

Scope of Claim(s)

Claim [1]

The internet digital video disk monitor who includes the DVD ROM it is the internet terminal connecting to internet, the decoding means decoding the regenerative signal outputted in the DVD ROM, and the control means even though it does not connect with PC. The control means is not put through the separate communications bus, and which receives the decoded regenerative signal as described above and processed as the signal for the display.

Claim [2]

The internet digital video disk monitor of claim 1, wherein monitor more includes the tuner for the TV broadcasting signal reception; and accordingly it processes the control means as the signal for displaying the tuned broadcast signal.

Claim [3]

The internet digital video disk monitor of claim 1, wherein monitor more includes the memory of being mobile that the predetermined data are stored; and accordingly it processes the control means as the signal which is stored in the memory canning be outputted.

Drawing

Drawing(s)



